

KATRET ACR

Anti-Corrosive Mortar

Product Description :

KATRET ACR is a cement and mineral-based, one-component, highly durable mortar, that is used for forming a waterproof sub-floor in flexible concrete applications and for protecting the reinforcements, which are open and/or exposed to corrosion. It protects against corrosion in addition to installing an adherence bridge between old concrete and newly applied concrete layer.

Areas of application :

- Interior and exterior
- In engineering constructions such as highways, bridges, tunnels, car parks, etc.
- In concrete repairing works
- For protecting the reinforcements from corrosion in steel furnishings and plate ramps
- It combines the functions of installing adherence bridge and preventing corrosion in one product
- For protecting the concrete constructional elements from corrosion, repairing, reinforcing and recoating the surfaces exposed to corrosion
- For providing adherence bridge between the current concrete and new concrete layer in polymer-added industrial concrete screed rehabilitation and new application works
- Used for forming a waterproof, durable sub-floor against corrosion under the concrete surface in industrial surfaces which require high flexibility, durability and resistance

Features :

- Easily applicable directly on the reinforcement with a brush
- One component and mineral-based
- Resistant to water, continuous humidity, frost and adverse weather conditions
- High durability
- Resistant to sulphate
- High adherence capability to the surface
- Fireproof

Technical data :

Dmax (mm)	< 1
Colour	Grey
Applicable Thickness (mm)	5
Dry Unit Volume Weight (kg / lt)	1,3 ± 0,2
Wet Unit Volume Weight (kg / lt)	2,0 ± 0,2
Pot Life (min.) (at 20°C)	90
Curing Time (hour) (at 20°C)	24
Compressive Strength (28 days) (N/mm ²)	≥ 40 N/mm ²
Flexural Strength (28 days) (N/mm ²)	≥ 4 N/mm ²
Bonding Strength (28 days) (N/mm ²)	≥ 2 N/mm ²
Water Mixing Ratio (for 25 kg dry mortar)	7 - 8 lt
Environment and floor temperature for application	Between +5°C and +35°C

Technical data are approximately provided according to a temperature of + 20°C and a relative humidity of 50%.

Preparation of the substrate :

For protecting against corrosion:

- The exposed concrete reinforcement should be cleaned from the rusty layer until the raw metal part appears (In such a way that purity degree will be SA 2,5 – DIN 55928).

For installing adherence bridge:

- The application surface should be removed from separating and adhesion reducing materials such as dirt, dust, slag, tar, grease, paint, etc and defective legions; the reinforcements should be cleaned by means of methods such as rust sanding, grinding, etc.
- The rough grainy structure of the concrete to be applied on should be visible; the application surface should have adherence of minimum 1,5 N/mm².

Application :

As corrosion preventive:

- **KATRET ACR** is mixed in a clean container filled with 7 - 8 lt of clean water at normal environment temperature until a homogenous and smooth mixture is obtained.
- The obtained mortar is spread on the rust- and dirt-free reinforcement with a medium grade brush.
- In case of multi layer applications, the following layer is applied with a brush after the first layer hardens enough to bear burden (after 20 min at about 20°C).
- It is recommended to be applied in a few layers (one layer applications should be avoided).
- The application thickness should be minimum 2mm and maximum 5 mm.
- The reinforcements covered with **KATRET ACR** should be closed by covering with repair mortars from the range of **KATRET - KATRET PCC, KATRET PCC-H, KATRET PCC-T**, in compliance with concrete repair requirements.

As coating mortar providing adhering bridge:

- **KATRET ACR** is mixed in a clean container filled with 7 - 8 lt of clean water at normal environment temperature until a homogenous and smooth mixture is obtained.
- The obtained mortar is spread on the pre-wet reinforced surface that was combed with a medium grade brush or a roller, cleaned from dust and pre-coated with corrosive preventives. After the bonding layer if repair mortar is applied, it should be applied wet on wet.

After application :

In order to avoid fast and unhealthy drying, the newly applied surfaces should be protected from direct sunlight and adverse air conditions such as heavy wind and frost.

Coverage :

Approx. 1,8 – 2,2 kg/m² for 1 mm thickness.

The coverage amounts are theoretical and it is recommended to do coverage-controlled sample application before treatment.

Packaging :

In 25 kg craft bags, 64 bags in 1 palette (1600 kg/palette)

Storage :

- Dry mortar bags should be protected from frost and adverse weather conditions.
- They should be kept dry and cool on wooden pallets at between +10°C and +25°C in moisture free conditions.
- The torn and opened bags should be closed immediately and consumed first.
- Maximum 8 bags are stacked on each other.
- Shelf life is maximum 12 months conditional to complying with the above mentioned storage conditions

Health and Safety Information :

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Safety Data Sheet.